口977534D ... 口831G1

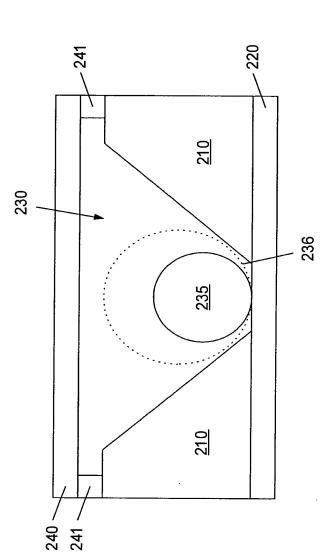
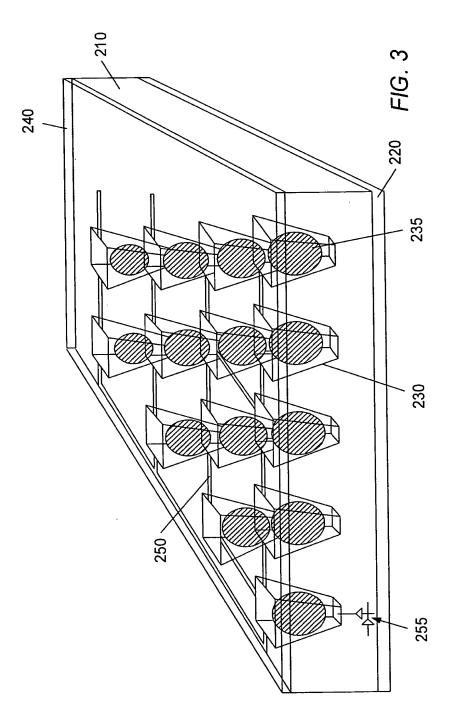


FIG. 2





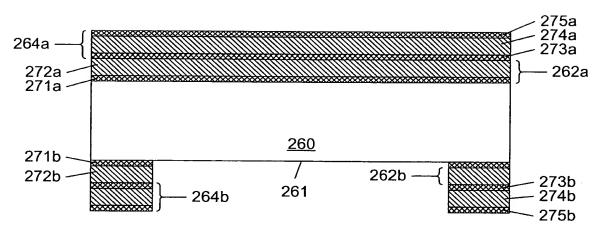


FIG. 4A

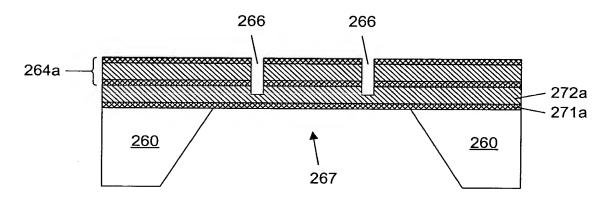


FIG. 4B

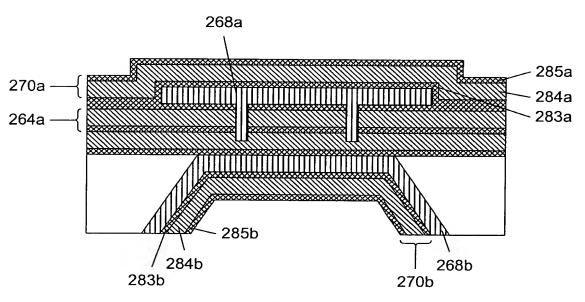


FIG. 4C

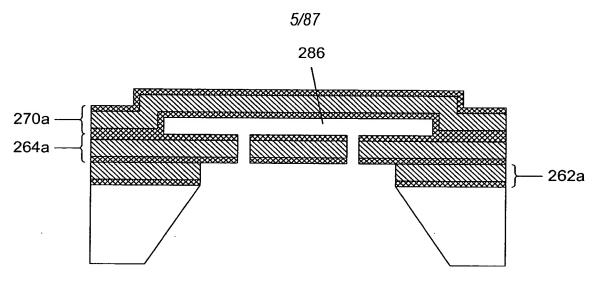


FIG. 4D

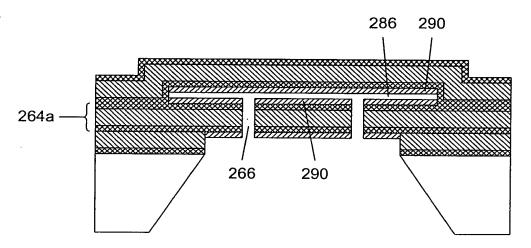


FIG. 4E

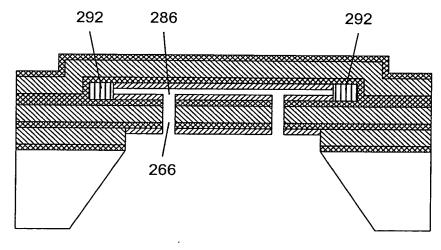


FIG. 4F



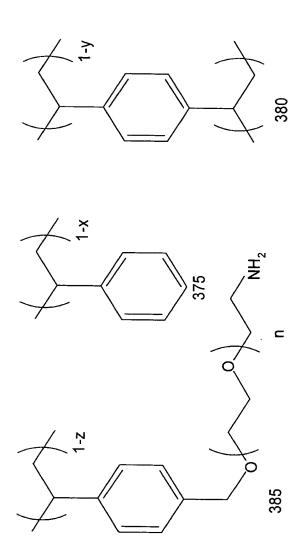


FIG. !

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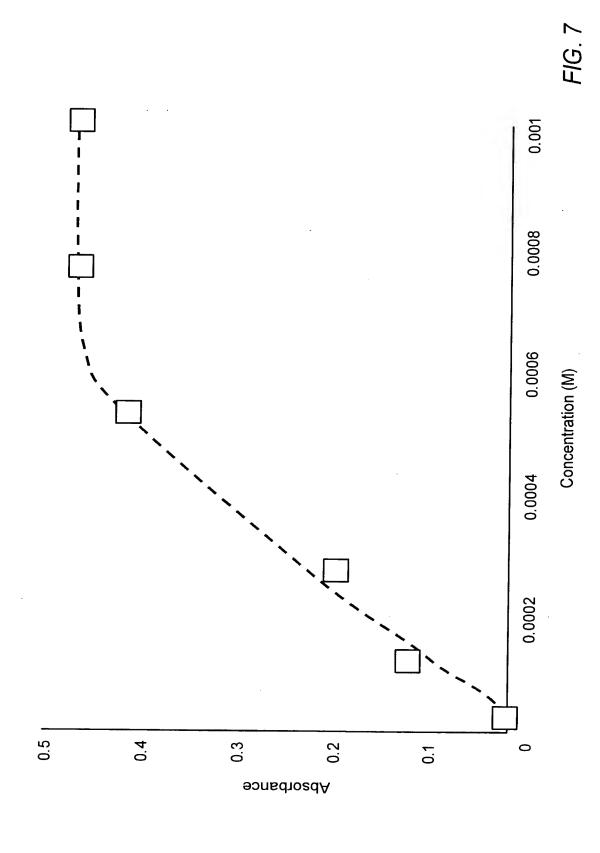
ᆼ

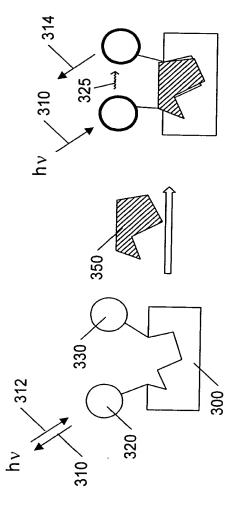
o-cresolphthalein complexone

5-carboxy fluorescein

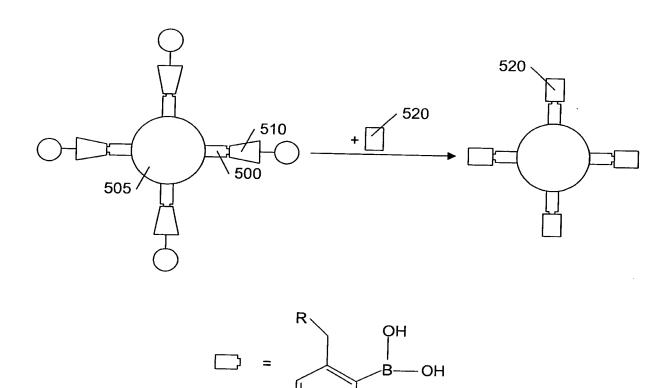
F/G. 6







F/G. 8

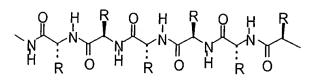


500

$$\begin{array}{c} HO \\ OH \\ OH \\ OH \\ OH \\ \hline \\ 510 \\ \end{array}$$

FIG. 9





Nucleotides

Peptides

FIG. 10

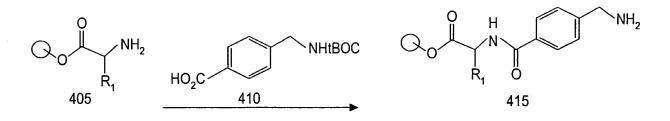


FIG. 11

FIG. 12

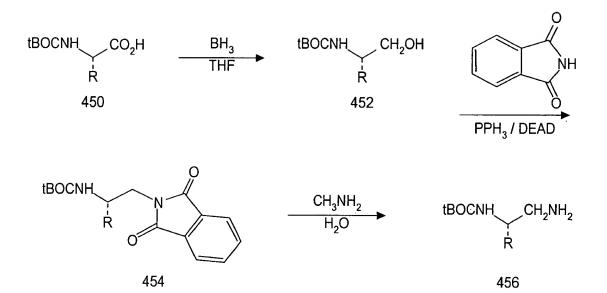
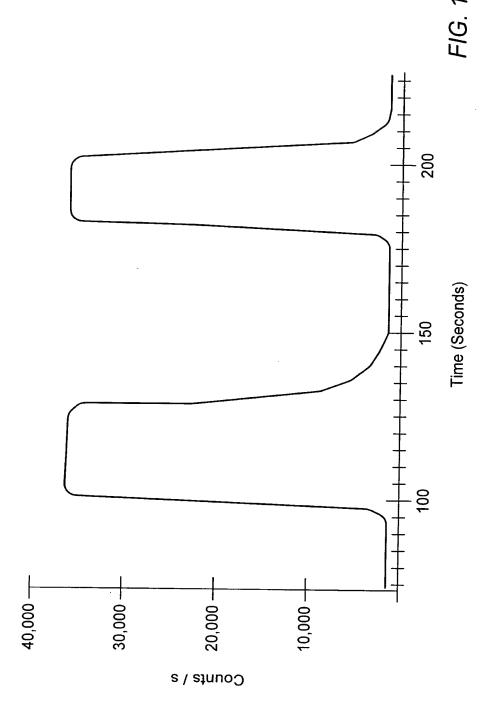


FIG. 13

$$HO$$
 CO_2H
 H_2N
 NH_2
 470

FIG. 14







RESIN:		DI I		o-Cresol-		Alizarin-Ce ³⁺
рН	lon	Blank	Alizarin	phthalein	Fluorescein	complex
2	none	R G B	R G B	R G B	R G B	R G B
2	Ca ²⁺	R G B	R G B	R G B	ж С В	R G B
7	none	п	R G B	R G B	R G B	R G B
7	Ca ²⁺	R G в	R G B	R G B	R G B	R G B
7	F -	К С В	R G B	R G B	R G B	R G B
12	none	R G B	R G B	R G B	R G B	R G B
12	Ca ²⁺	R G B	R G B	R G	R G B	R G B
12	F -	R G B	R G B	R G B	R G B	R G B

FIG. 16

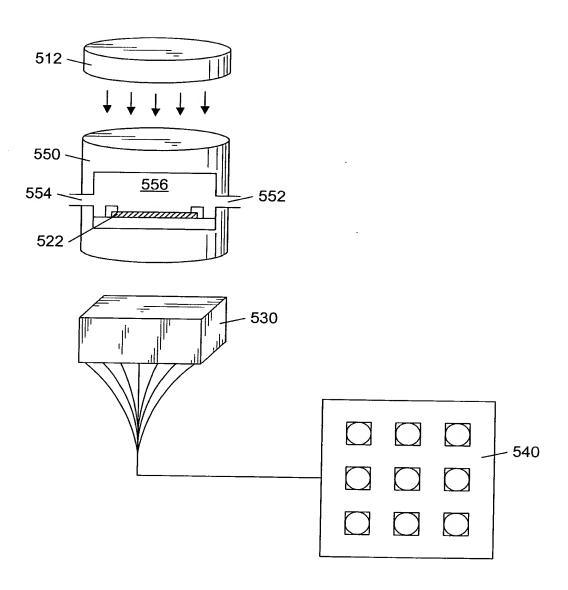


FIG. 17

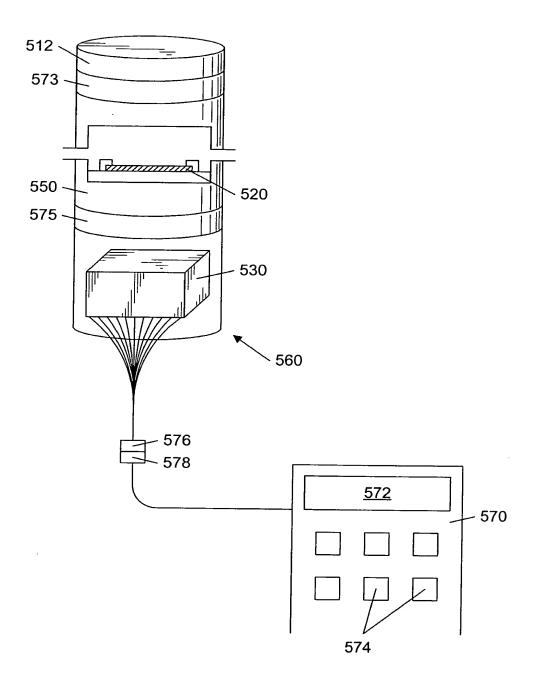
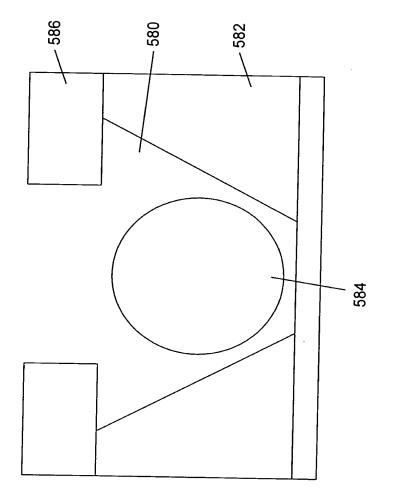
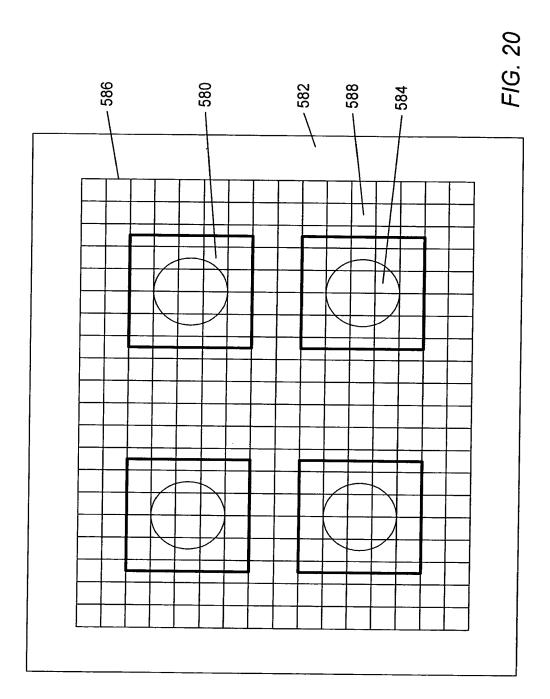


FIG. 18



=1G. 19





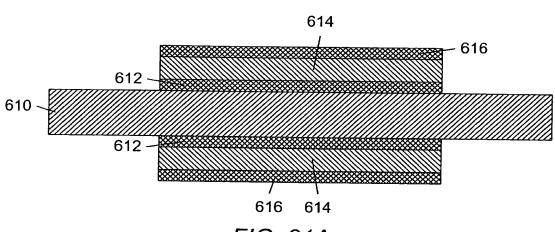


FIG. 21A

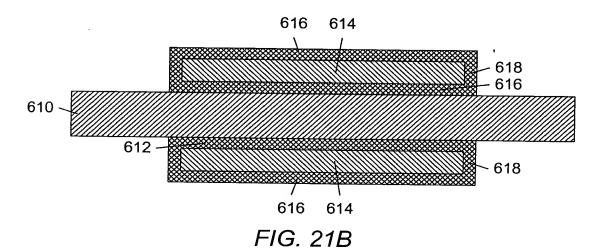


FIG. 21C

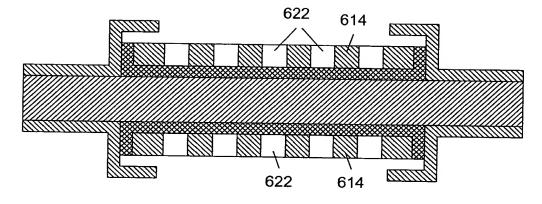
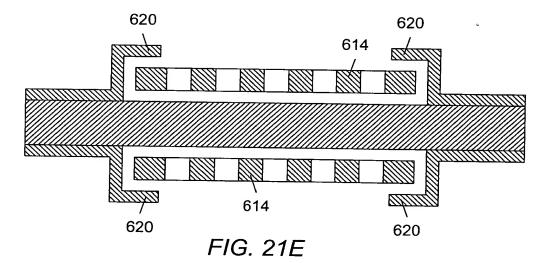


FIG. 21D



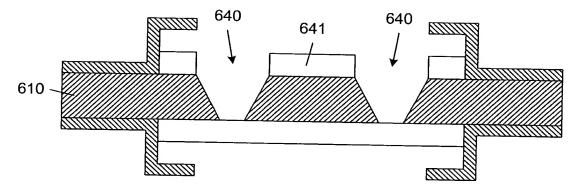


FIG. 21F

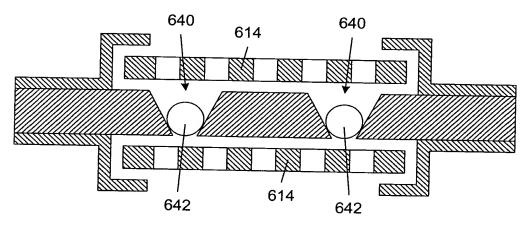
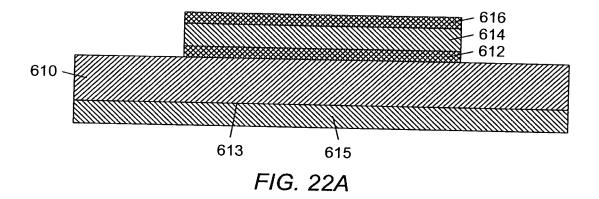


FIG. 21G



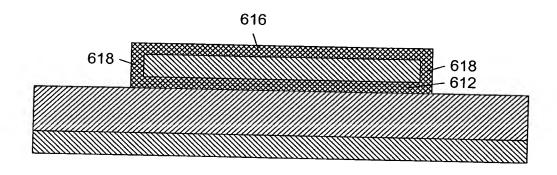


FIG. 22B

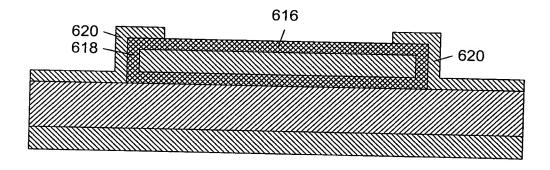
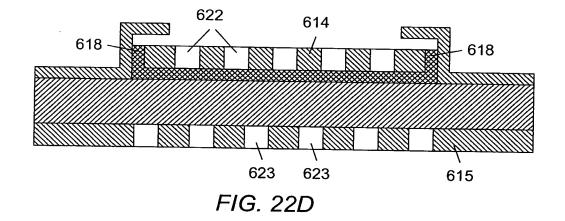


FIG. 22C



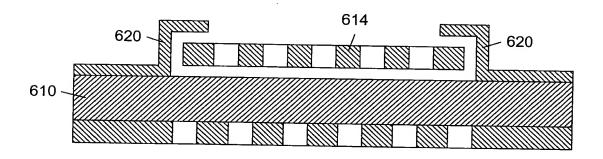


FIG. 22E

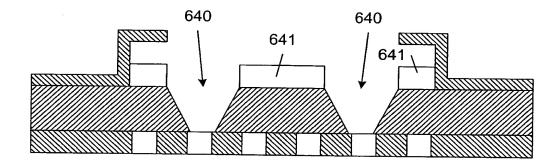


FIG. 22F

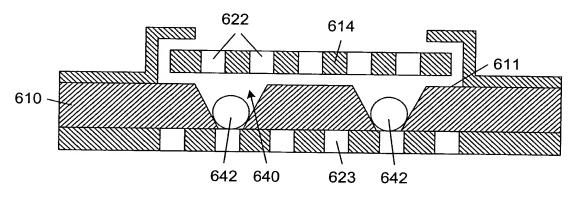


FIG. 22G

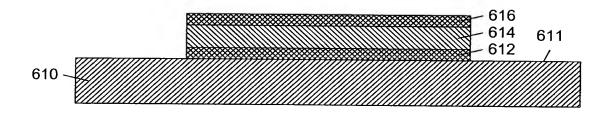


FIG. 23A

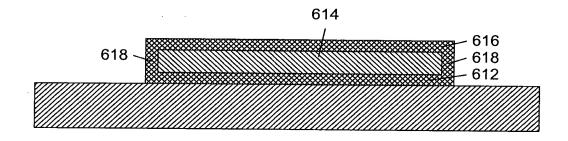


FIG. 23B

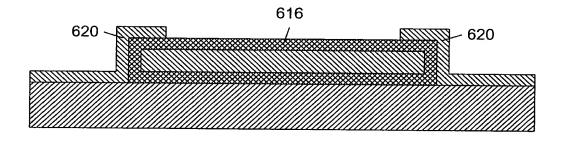


FIG. 23C

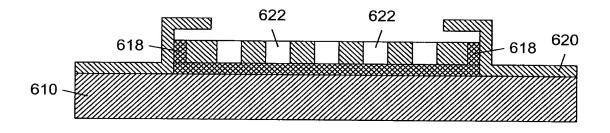


FIG. 23D

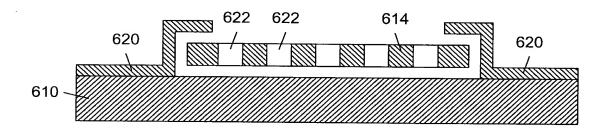


FIG. 23E

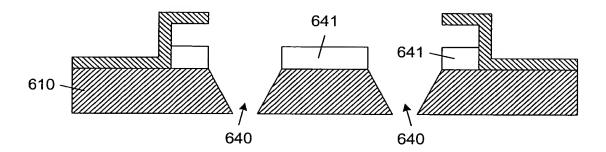


FIG. 23F

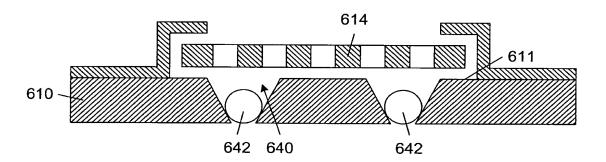


FIG. 23G

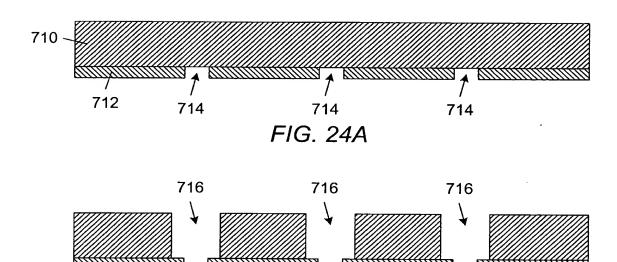


FIG. 24B

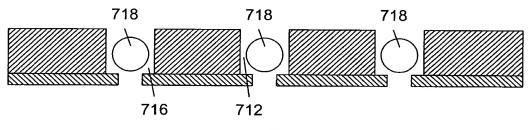


FIG. 24C

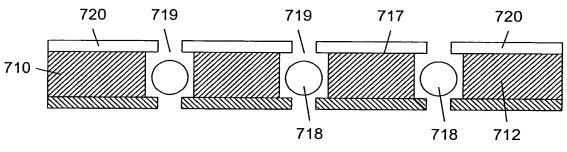


FIG. 24D

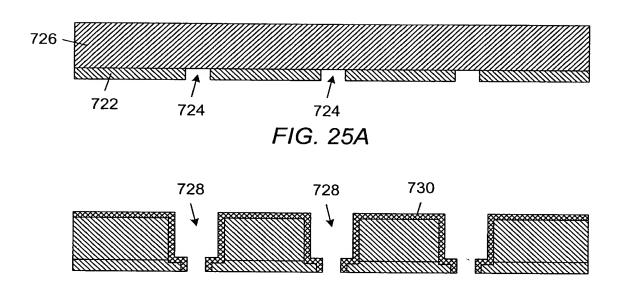


FIG. 25B

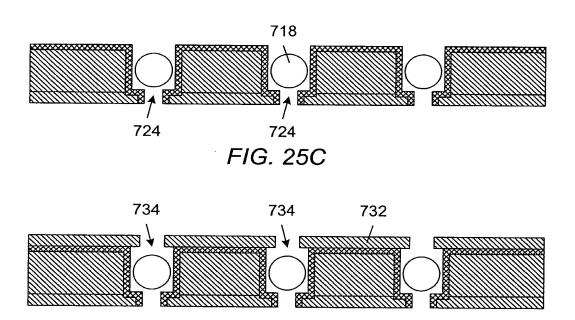


FIG. 25D

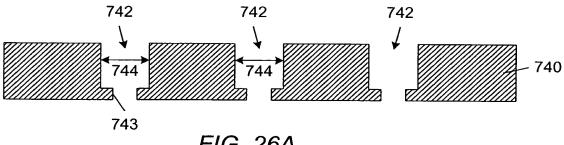


FIG. 26A

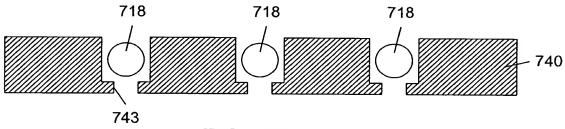


FIG. 26B

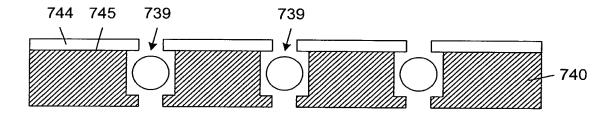
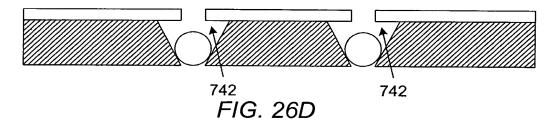
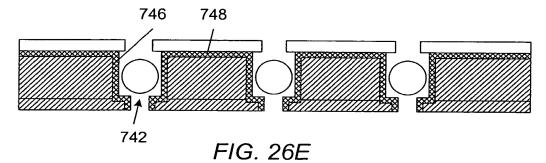


FIG. 26C





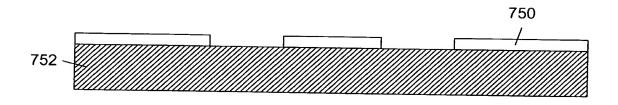


FIG. 27A

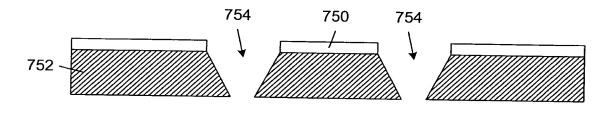


FIG. 27B

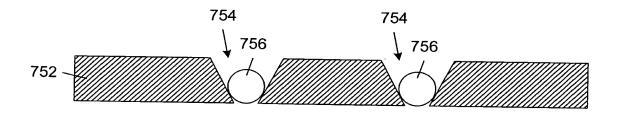
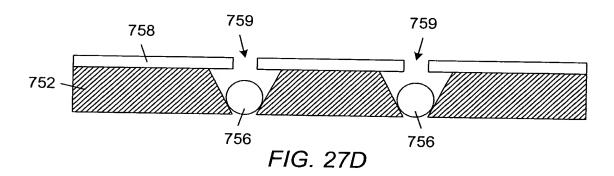
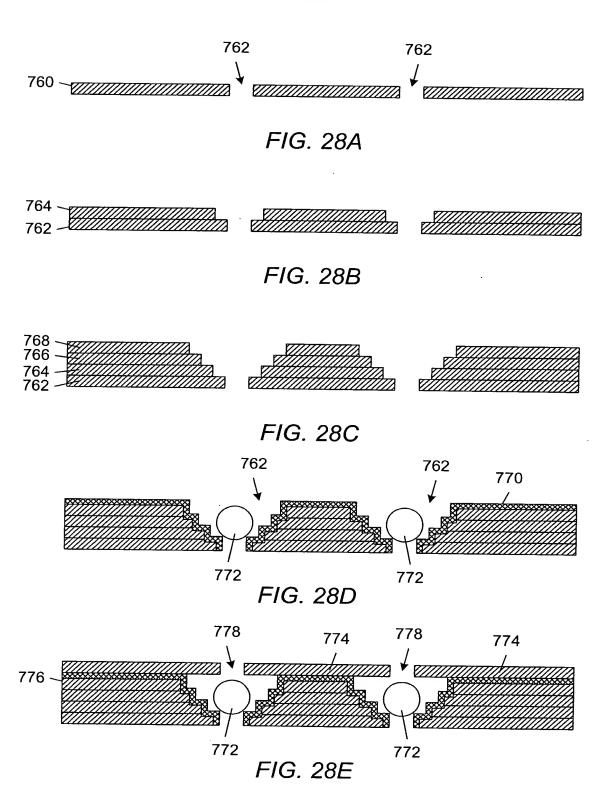


FIG. 27C





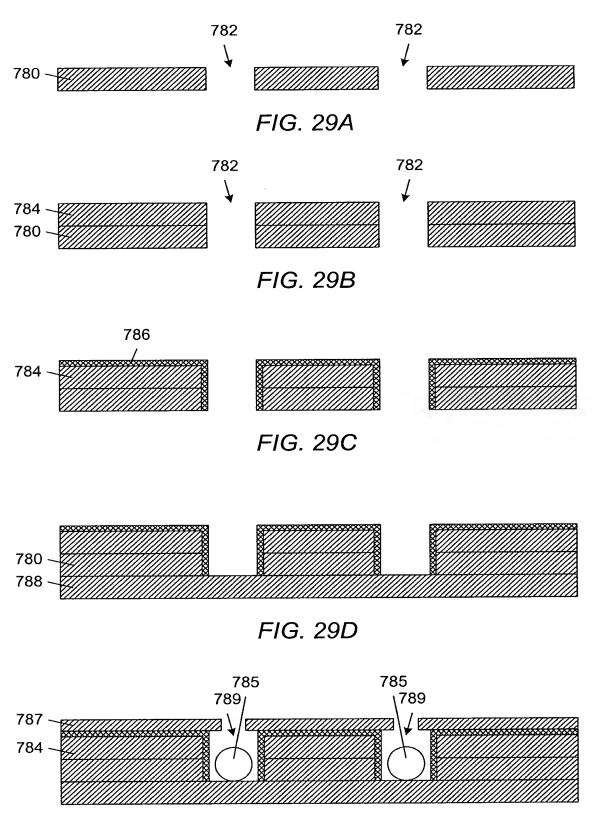


FIG. 29E

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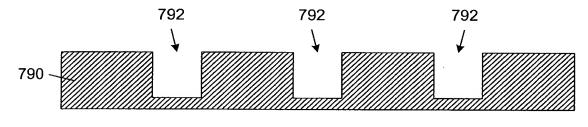


FIG. 30A

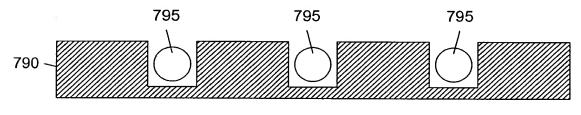


FIG. 30B

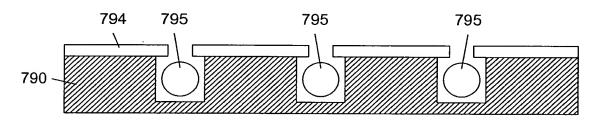


FIG. 30C

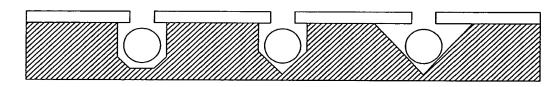
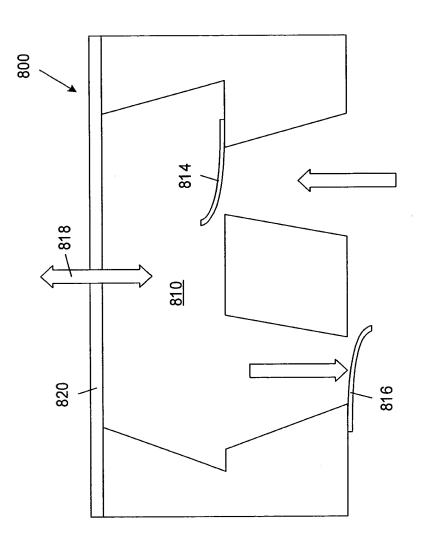
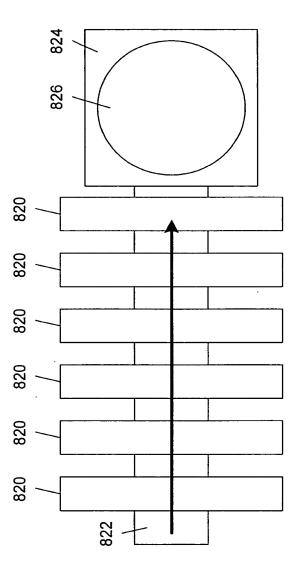


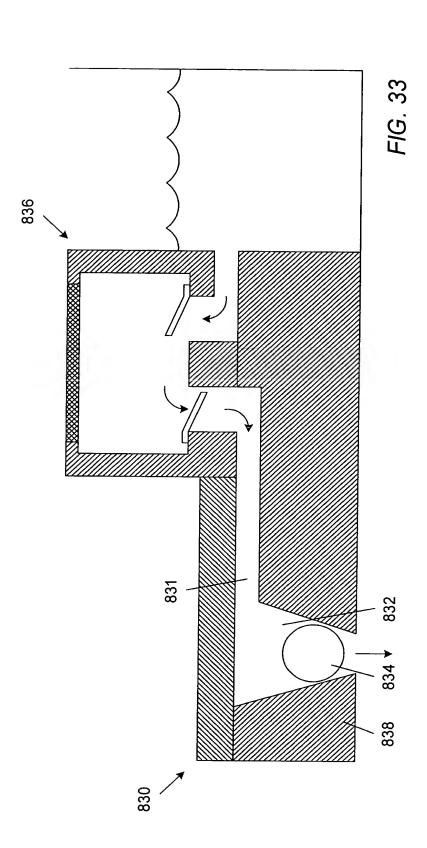
FIG. 30D



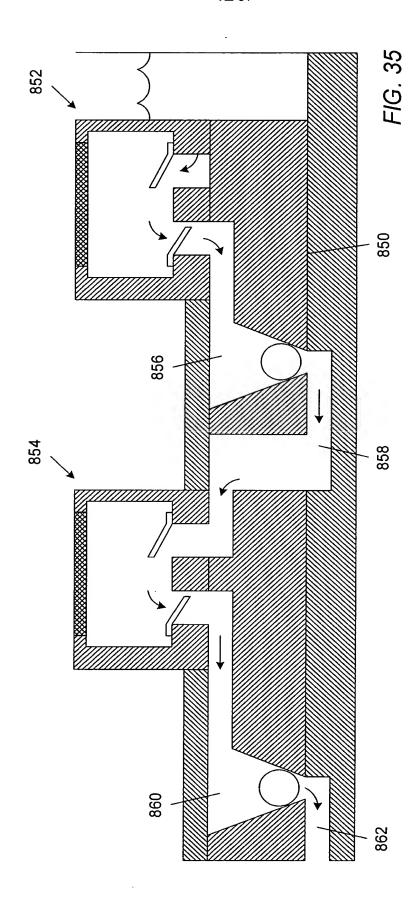
=1G. 31



=1G 3%



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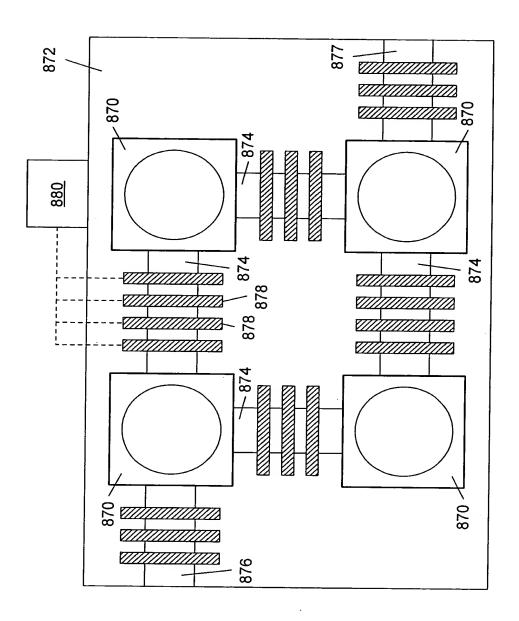
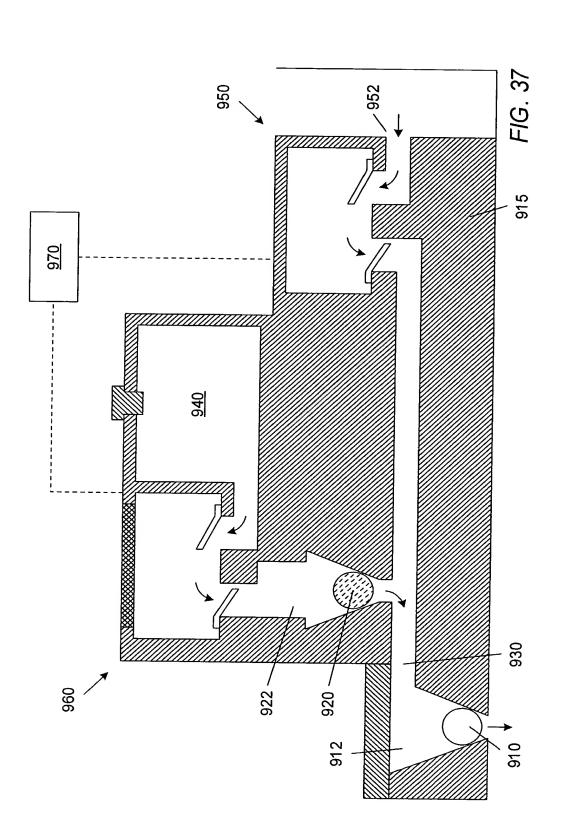
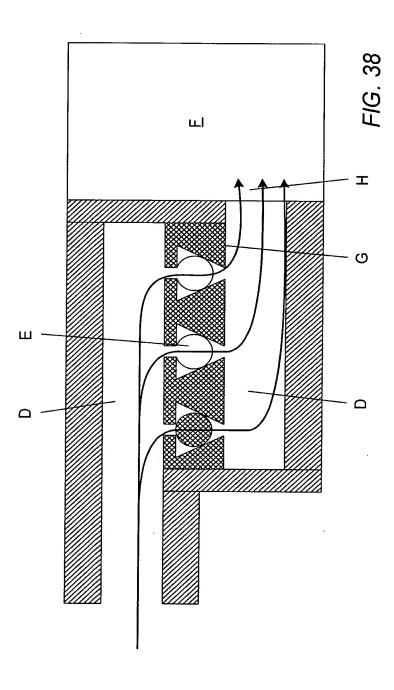
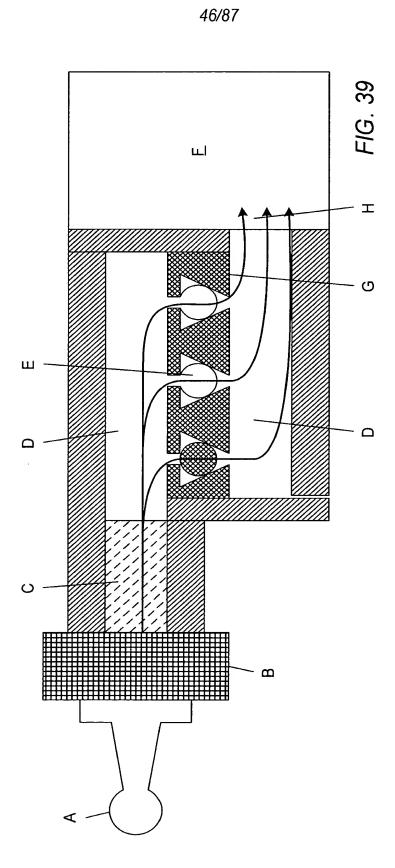


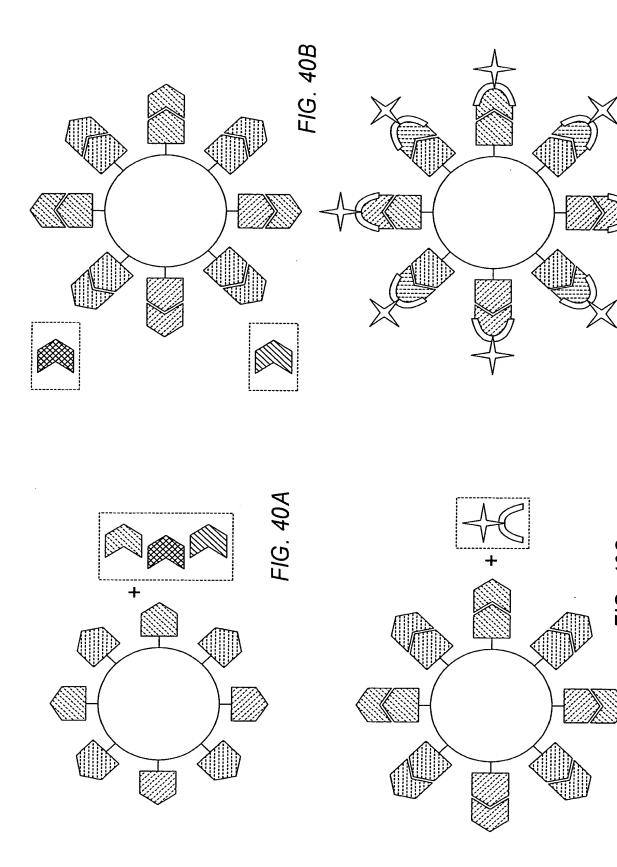
FIG. 36











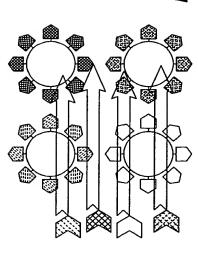


FIG. 41 A

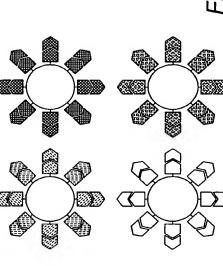
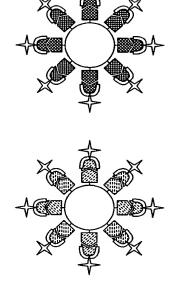
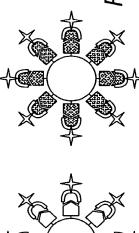


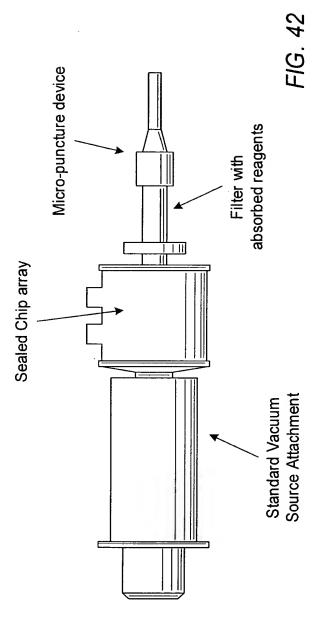
FIG. 41B



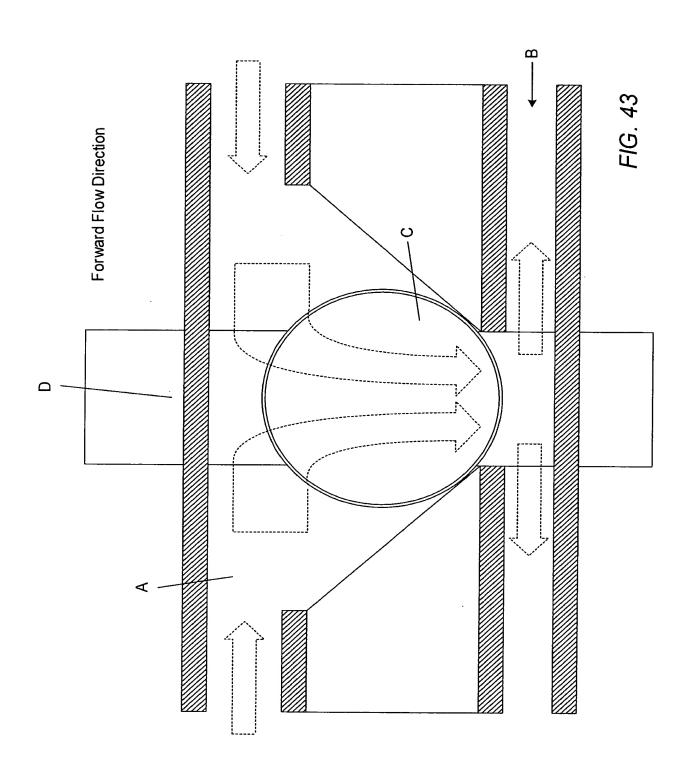
. 41C



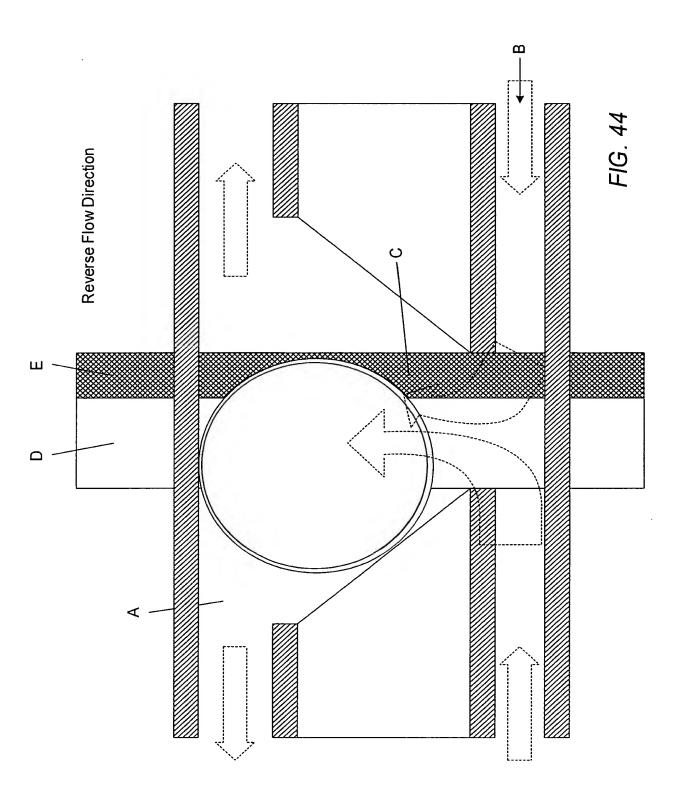












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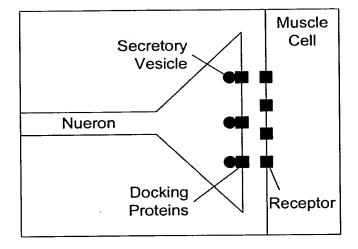


FIG. 45A

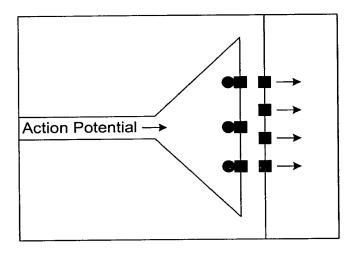


FIG. 45B

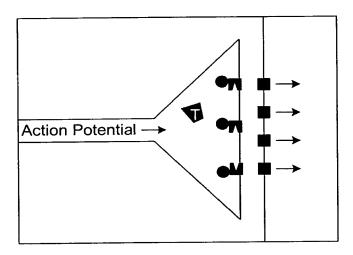


FIG. 45C

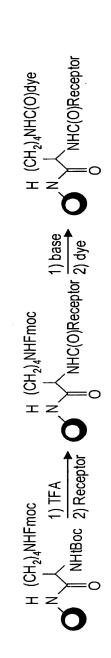


FIG. 45D

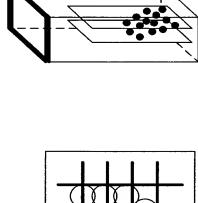


FIG. 46A

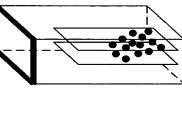
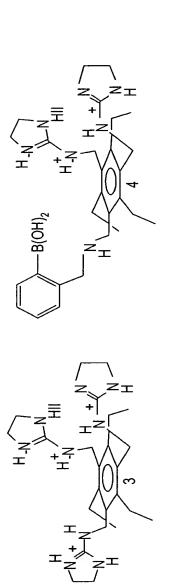


FIG. 46B



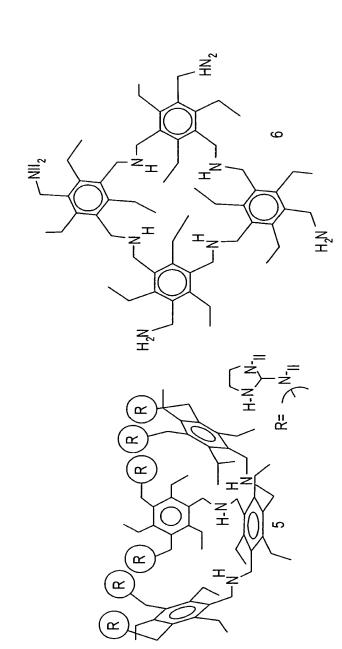
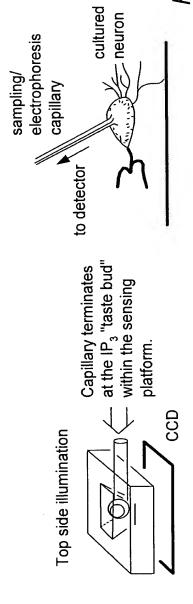


FIG. 47

FIG. 48



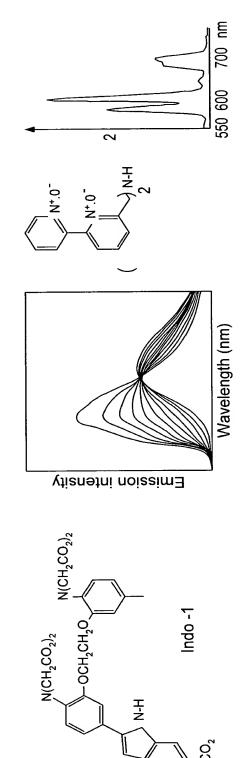
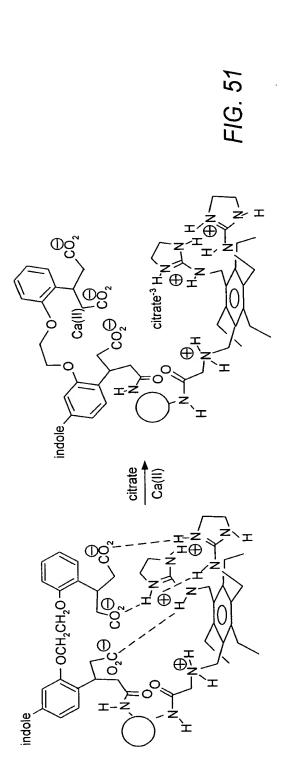


FIG. 50



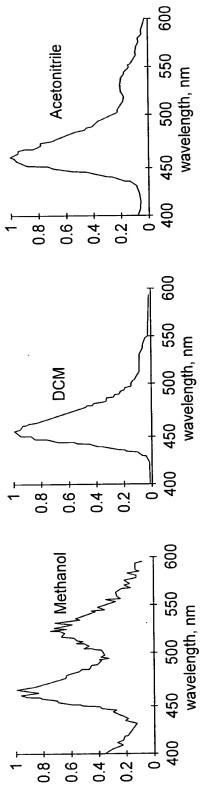
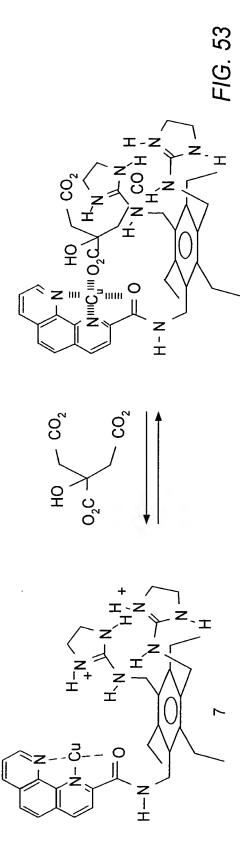
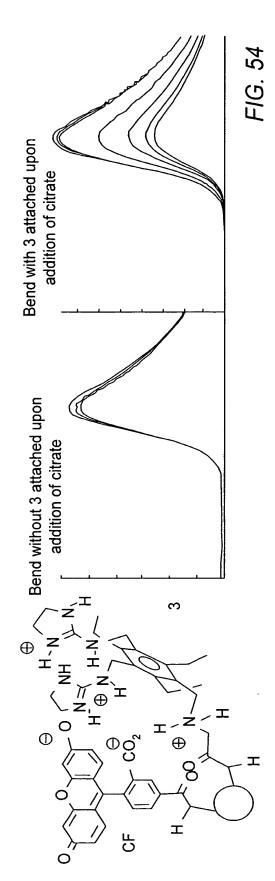
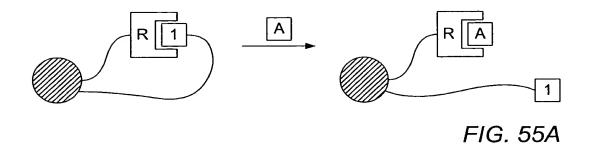
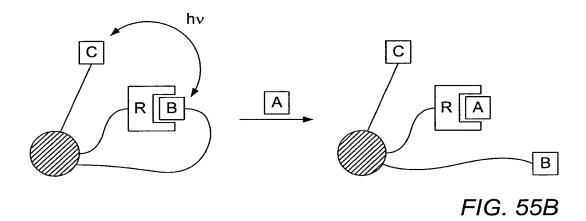


FIG. 52









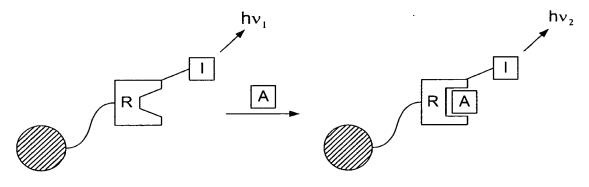


FIG. 55C

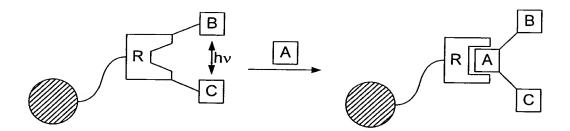
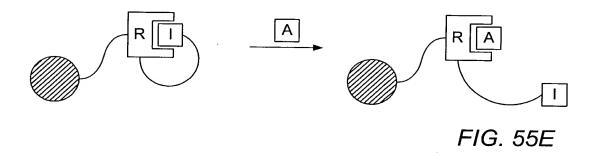


FIG. 55D



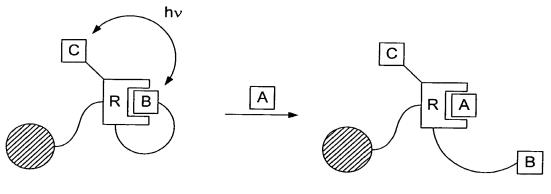
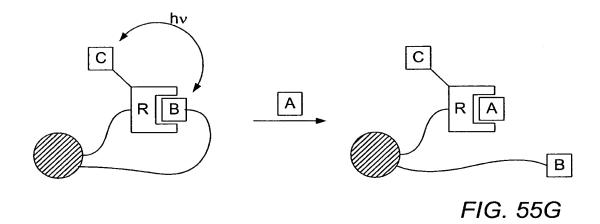
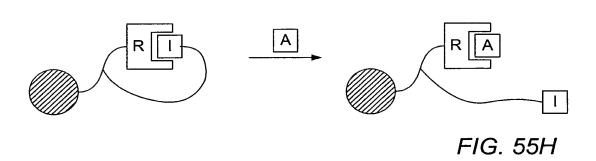
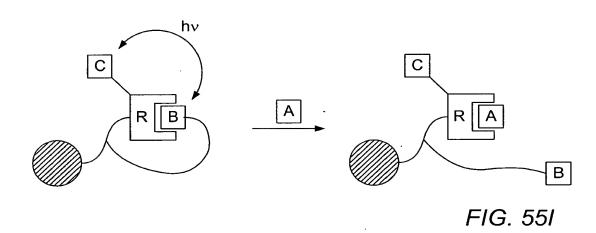


FIG. 55F







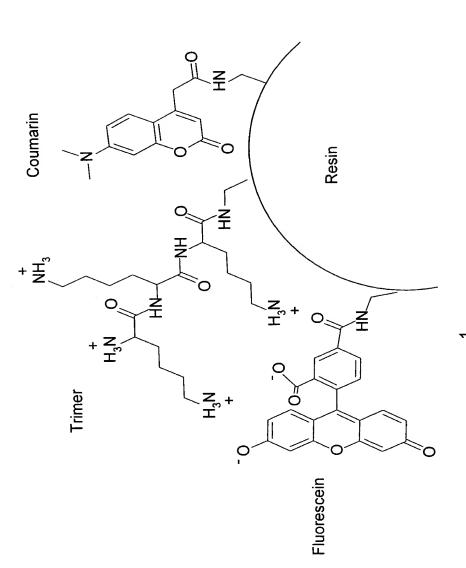
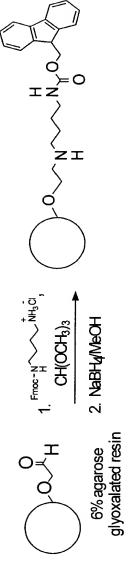


FIG. 56



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FIG. 57

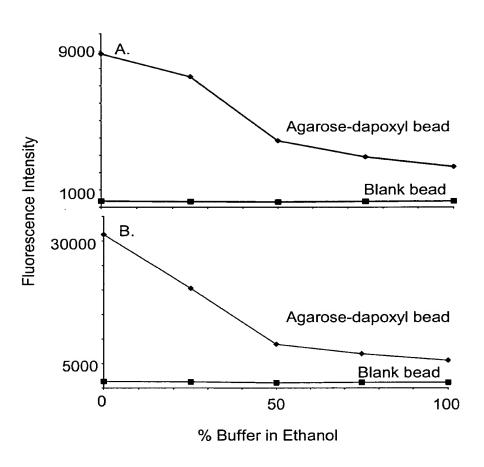


FIG. 58

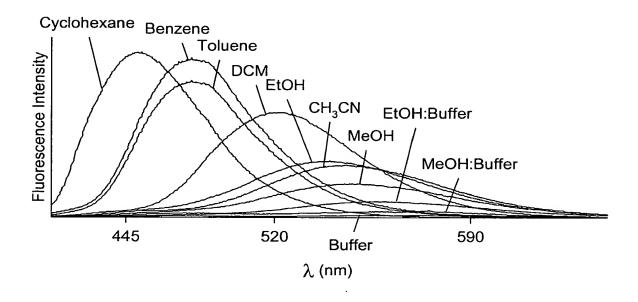
FIG. 59

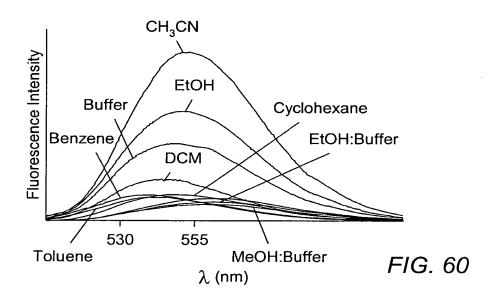
R=

7

PEG

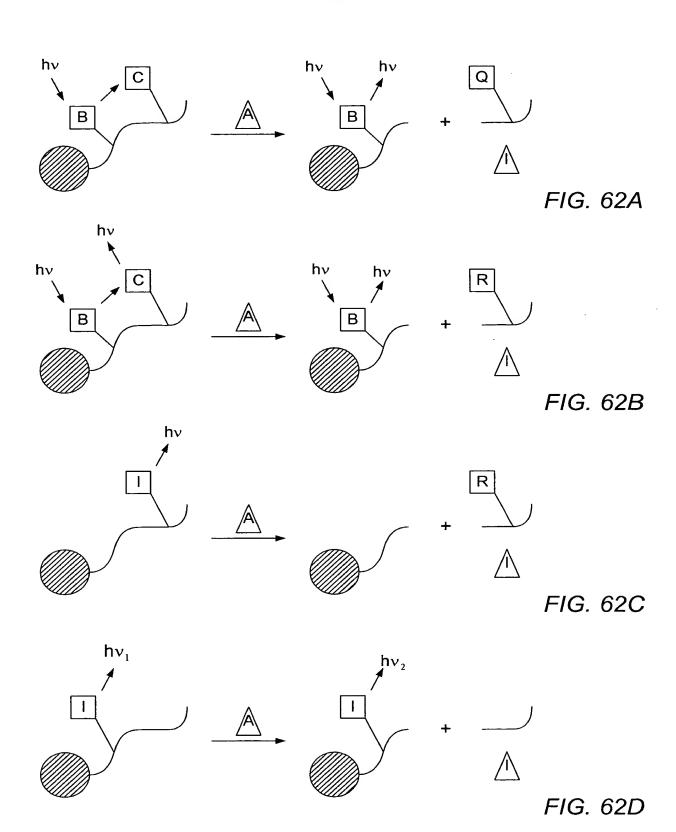
 NH_2





2:
$$X_1 = X_2 = H$$
 3: $X_1 = X_2 = O$

FIG. 61



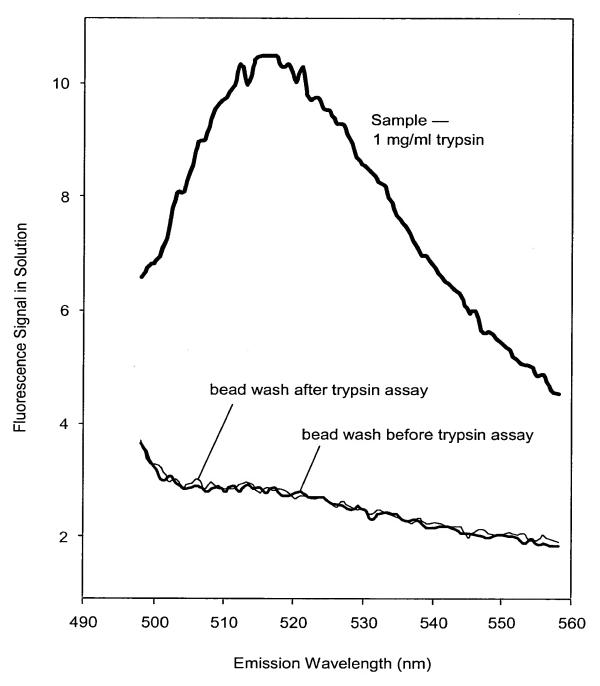
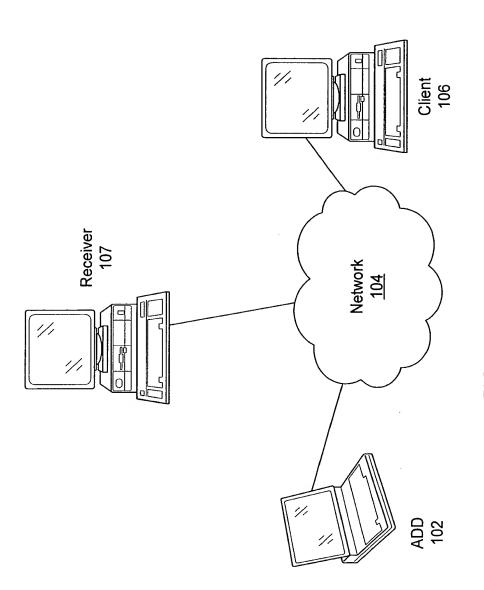


FIG. 63



⁻/G. 64

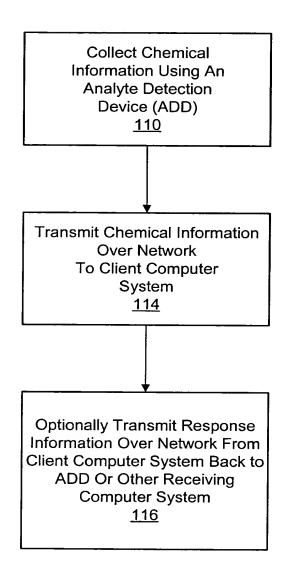
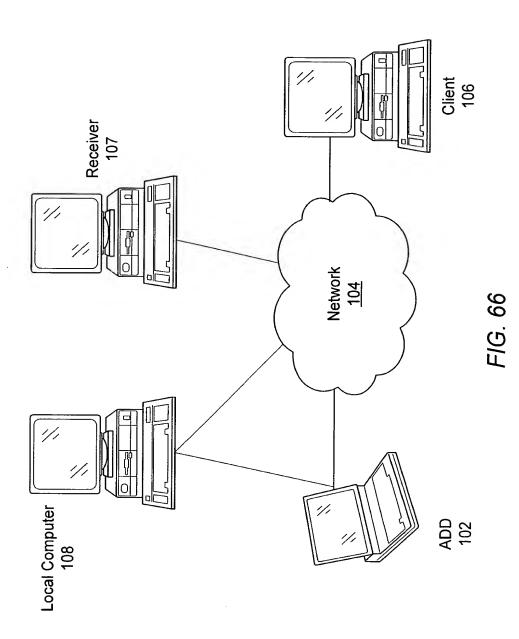


FIG. 65



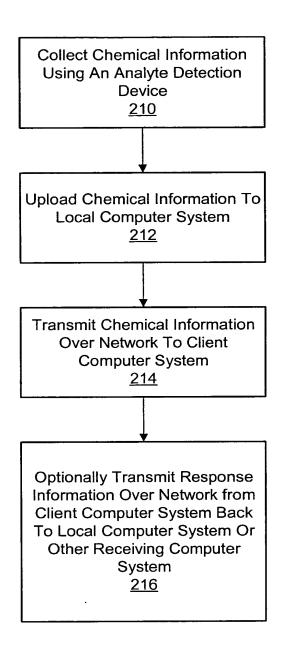
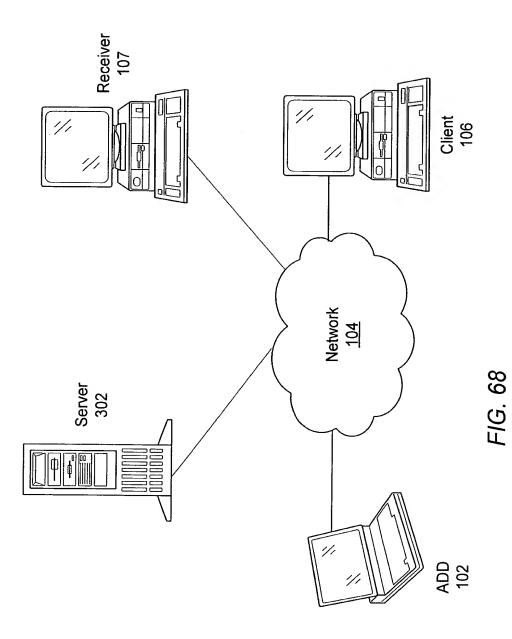


FIG. 67



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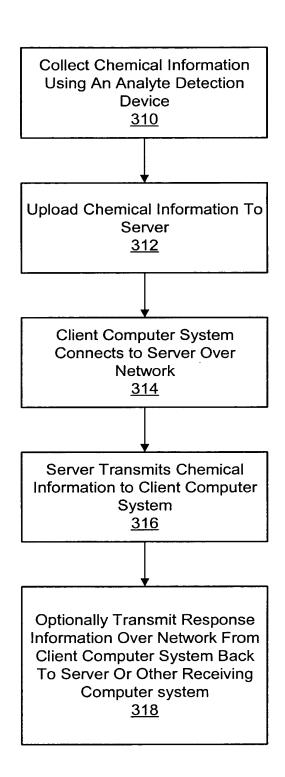


FIG. 69

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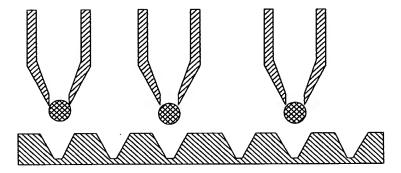


FIG. 70A

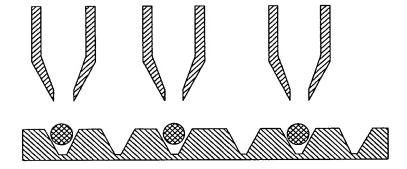


FIG. 70B

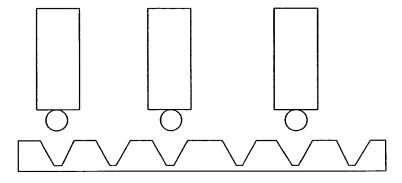


FIG. 71A

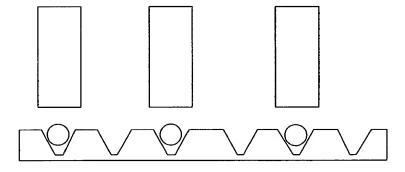


FIG. 71B

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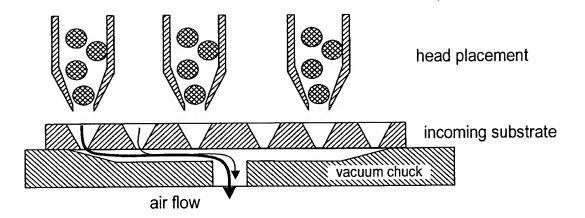


FIG. 72A

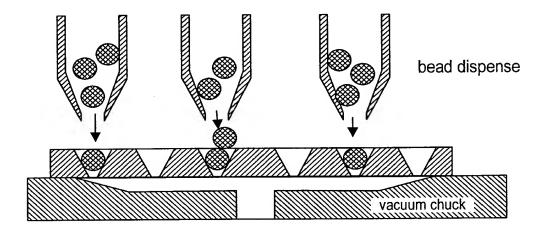


FIG. 72B

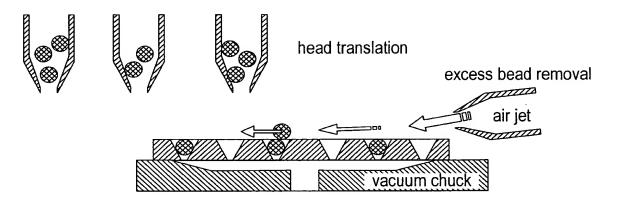


FIG. 72C

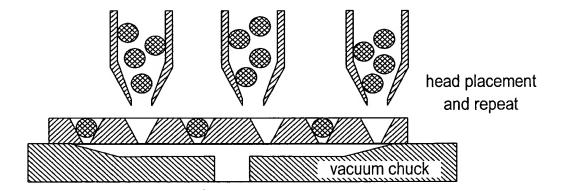


FIG. 72D



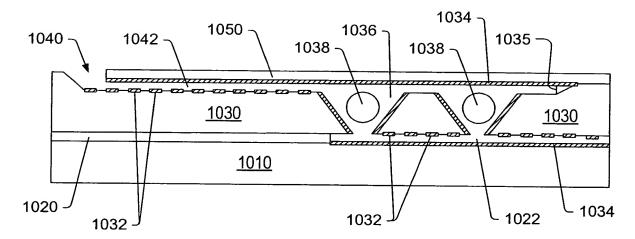


FIG. 73

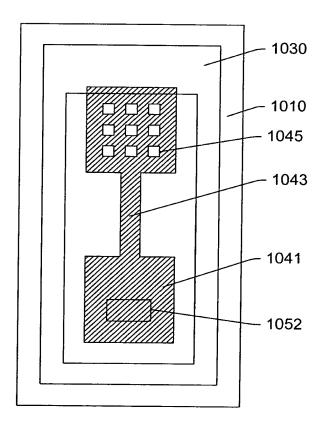


FIG. 74A

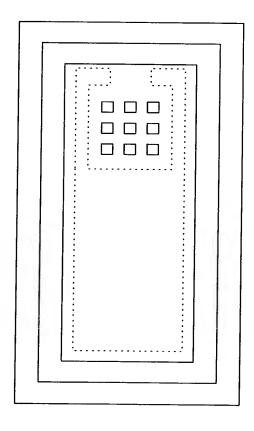
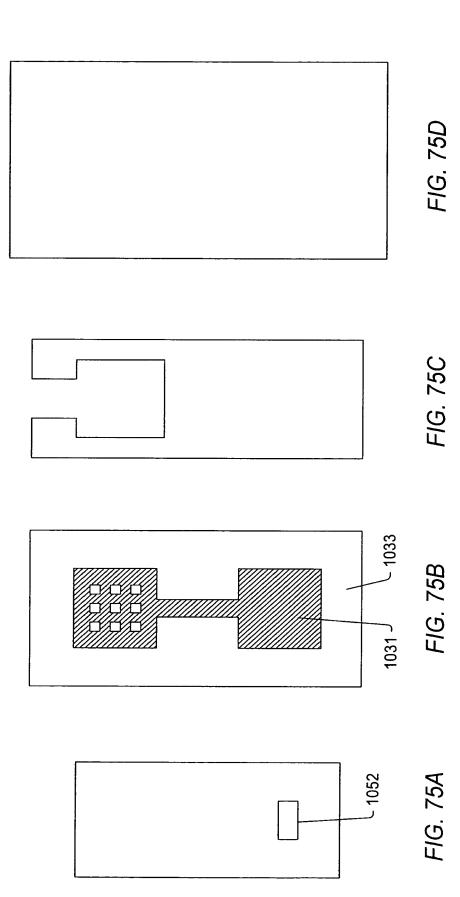


FIG. 74B



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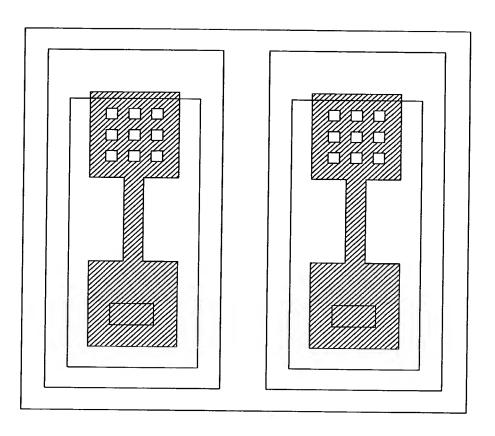
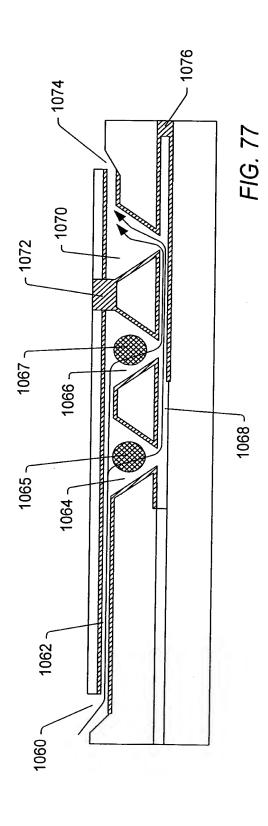


FIG. 76



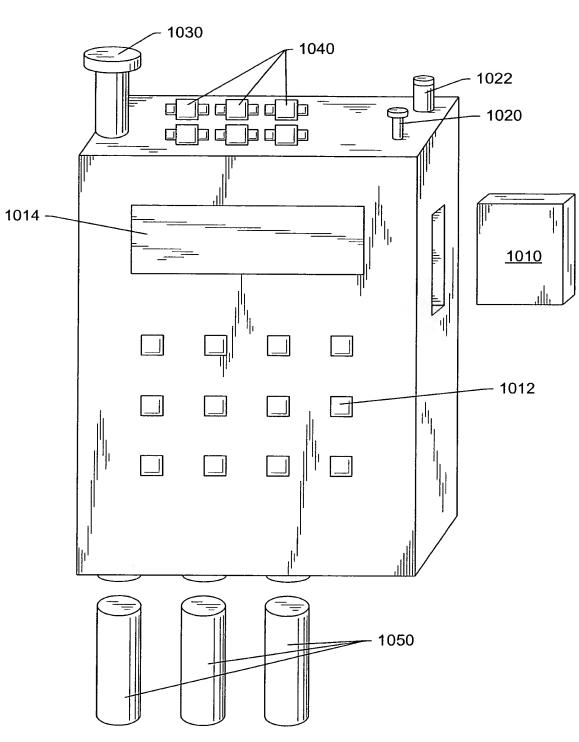


FIG. 78

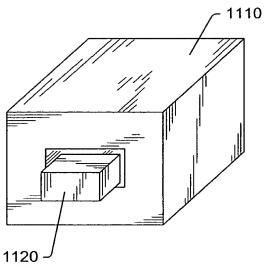


FIG. 79A

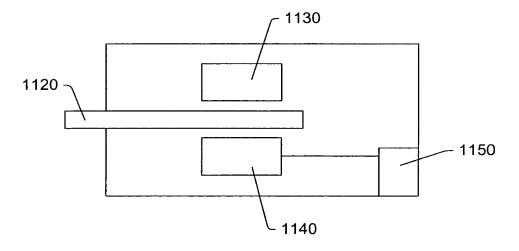
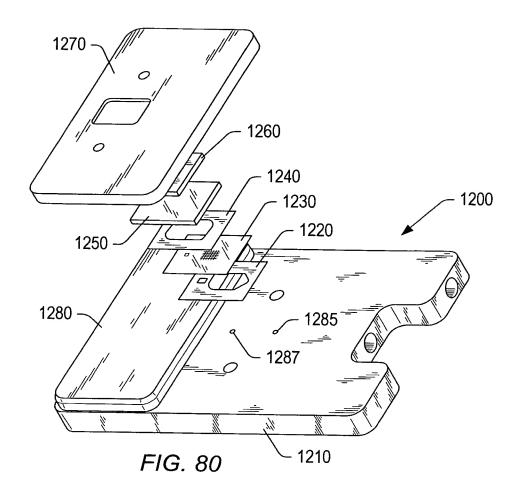
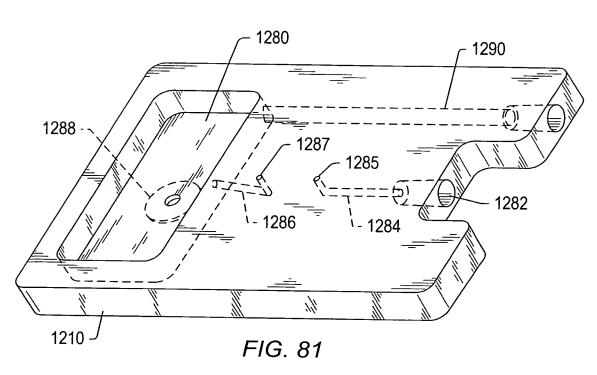


FIG. 79B









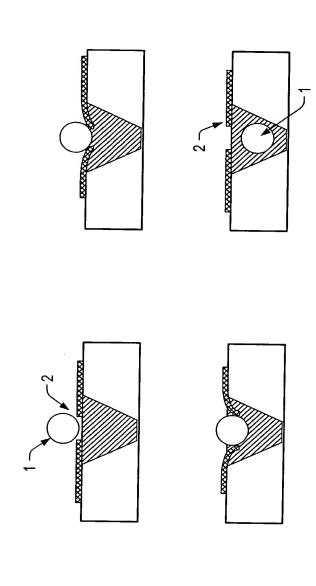


FIG. 82